

PDR RID Report

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Document ECS M&O

RID ID PDR 526

Review Wrap-up

Originator Ref

Priority 2

Section

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Figure Table

Category Name ECS System-Level

Actionee HAIS

Sub Category

Subject M&O Staffing

Description of Problem or Suggestion:

Staffing numbers drive costs of system. There is no clear description of how these numbers were derived or their robustness.

Originator's Recommendation

Document assumptions that were used to derive staffing levels for each M&O task. How were these numbers validated against other Government and non-Government data centers?

GSFC Response by:

GSFC Response Date

HAIS Response by: H. Dunn

HAIS Schedule 5/15/95

HAIS R. E. A. Bowers

HAIS Response Date 6/30/95

The original operational staffing numbers were derived based upon the requirements defined in the contractual SOW and a projected design of the ECS system. The staffing numbers were based upon system analysis, analysis of government and non-government data centers and projections of technology into the late 90's/early 2000's time frames and their positive (less staff) impact upon M&O staffing. The M&O staffing was based upon a fairly automated operational system that was beyond anything that existed at the time. Therefore, it was difficult to validate the numbers against any existing gov't data centers as the ones that we were aware of were fairly human intensive. We were familiar with some DOD data centers that were reasonably automated and a commercial data center that was also reasonably automated. With these data center staffing and operations as a baseline we validated as well as we could the ECS staffing numbers by applying the ECS designs higher levels of automation and the attendant reduction in M&O staff. The derivation of these numbers were documented in the contractual Basis of Estimates. These staffing estimates were evaluated by the GSFC evaluation team and, with the exception of some areas that were considered to be understaffed, were deemed to be aggressive but within reasonable bounds. In the SDR time frame we were asked to re-evaluate the staffing numbers based upon the new mission baseline and reduced hours of operation. This resulted in a new staffing analysis that resulted in a significant potential savings in M&O staffing over the life of the program. The results of that study were shared with the DAACs and were found to be well within their independent staffing estimates and provided a second round of validation. The EDC DAAC which is a government data center with many years of operations experience evaluated the staffing numbers and found them aggressive but within reason. With the PDR milestone and a better definition of the system design, the staffing numbers are again being re-evaluated and these new staffing estimates are being discussed with each DAAC. At this point in time, the DAACs that we have coordinated with have concurred with the staffing estimates with minor changes and have provided a third round of validation.

Status Closed

Date Closed 7/17/95

Sponsor Schroeder

Attachment if any
